Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for facilitating data clustering of speech and audio data, said apparatus comprising:

an arrangement for obtaining input data; and

an arrangement for creating a predetermined number of non-overlapping subsets of the input data;

said arrangement for creating a predetermined number of non-overlapping subsets being adapted to split the input data recursively;

said clustering being independent of any system.

- 2. (Original) The apparatus according to Claim 1, wherein said arrangement for creating a predetermined number of non-overlapping subsets is adapted to initially split the input data into at least two sets of output data.
- 3. (Original) The apparatus according to Claim 2, wherein said arrangement for creating a predetermined number of non-overlapping subsets is adapted to:

split the at least two sets of output data recursively; and

repeat the recursive splitting of output data sets until the predetermined number of non-overlapping subsets is obtained.

- 4. (Original) The apparatus according to Claim 2, wherein said arrangement for creating a predetermined number of non-overlapping subsets is adapted to determine an eigenvector decomposition relating to the input data.
- 5. (Original) The apparatus according to Claim 4, wherein said arrangement for creating a predetermined number of non-overlapping subsets is adapted to determine a vector of projection coefficients onto the set of eigenvectors in the eigenvector decomposition.
- 6. (Currently Amended) The apparatus according to Claim 5, wherein said arrangement for creating a predetermined number of non-overlapping subsets is adapted to determine a probability density distribution relating to the vector of projection coefficients.
- 7. (Original) The apparatus according to Claim 6, wherein said arrangement for creating a predetermined number of non-overlapping subsets is adapted to:

assign at least one threshold relating to the probability density; and

yield the at least two sets of output data based on the relation to the threshold of a value associated with a function relating to the projection coefficients.

8. (Original) The apparatus according to Claim 7, wherein there are N-1 thresholds, where N is the number of sets of output data to be yielded.

- 9. (Currently Amended) The apparatus according to Claim 8, wherein each threshold is a value of the function relating to the projection coefficients for which the probability density distribution equals m/N, where m is a number from 1 to N-1.
- 10. (Original) The apparatus according to Claim 1, wherein the data clustering relates to the enrollment of target speakers in a speaker verification system.
- 11. (Currently Amended) A method of facilitating data clustering of speech and audio data, said method comprising the steps of:

obtaining input data; and

creating a predetermined number of non-overlapping subsets of the input data;
step of creating a predetermined number of non-overlapping subsets comprising splitting
the input data recursively;

said clustering being independent of any system.

- 12. (Original) The method according to Claim 11, wherein said splitting step comprises initially splitting the input data into at least two sets of output data.
- 13. (Original) The method according to Claim 12, wherein said splitting step comprises:

splitting the at least two sets of output data recursively; and

repeating the recursive splitting of output data sets until the predetermined number of non-overlapping subsets is obtained.

- 14. (Original) The method according to Claim 12, wherein said splitting step comprises determining an eigenvector decomposition relating to the input data.
- 15. (Original) The method according to Claim 14, wherein said splitting step further comprises determining a vector of projection coefficients onto the set of eigenvectors in the eigenvector decomposition.
- 16. (Currently Amended) The method according to Claim 15, wherein said splitting step further comprises determining a probability density distribution relating to the vector of projection coefficients.
- 17. (Currently Amended) The method according to Claim16, wherein said splitting step further comprises:

assigning at least one threshold relating to the probability density distribution; and yielding the at least two sets of output data based on the relation to the threshold of a value associated with a function relating to the projection coefficients.

18. (Original) The method according to Claim 17, wherein there are N-1 thresholds, where N is the number of sets of output data to be yielded.

- 19. (Currently Amended) The method according to Claim 18, wherein each threshold is a value of the function relating to the projection coefficients for which the probability density distribution equals m/N, where m is a number from 1 to N-1.
- 20. (Original) The method according to Claim 1, wherein the data clustering relates to the enrollment of target speakers in a speaker verification system.
- 21. (Currently Amended) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for facilitating data clustering of speech and audio data, said method comprising the steps of:

obtaining input data; and

creating a predetermined number of non-overlapping subsets of the input data;

step of creating a predetermined number of non-overlapping subsets comprising splitting the input data recursively;

said clustering being independent of any system.